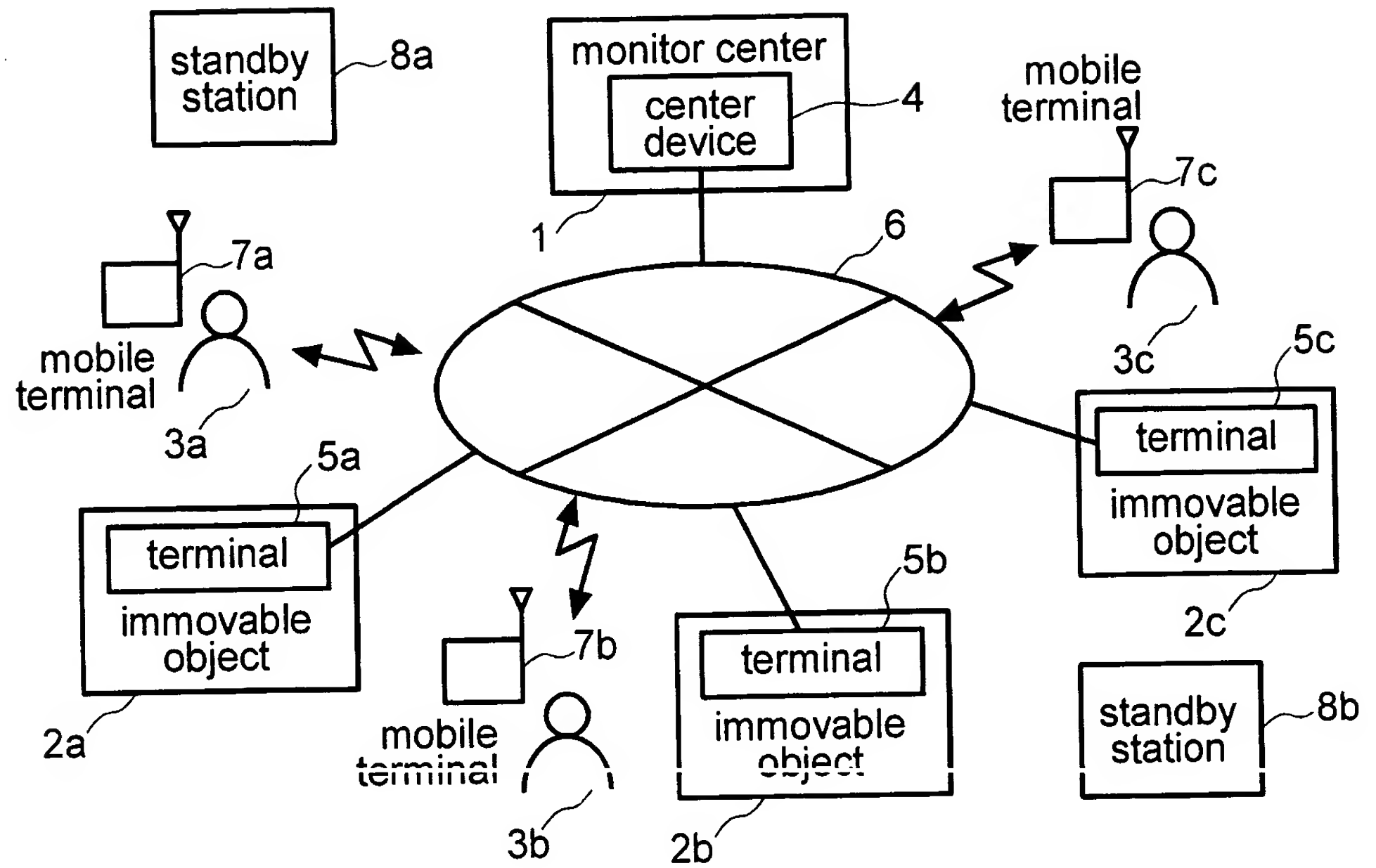


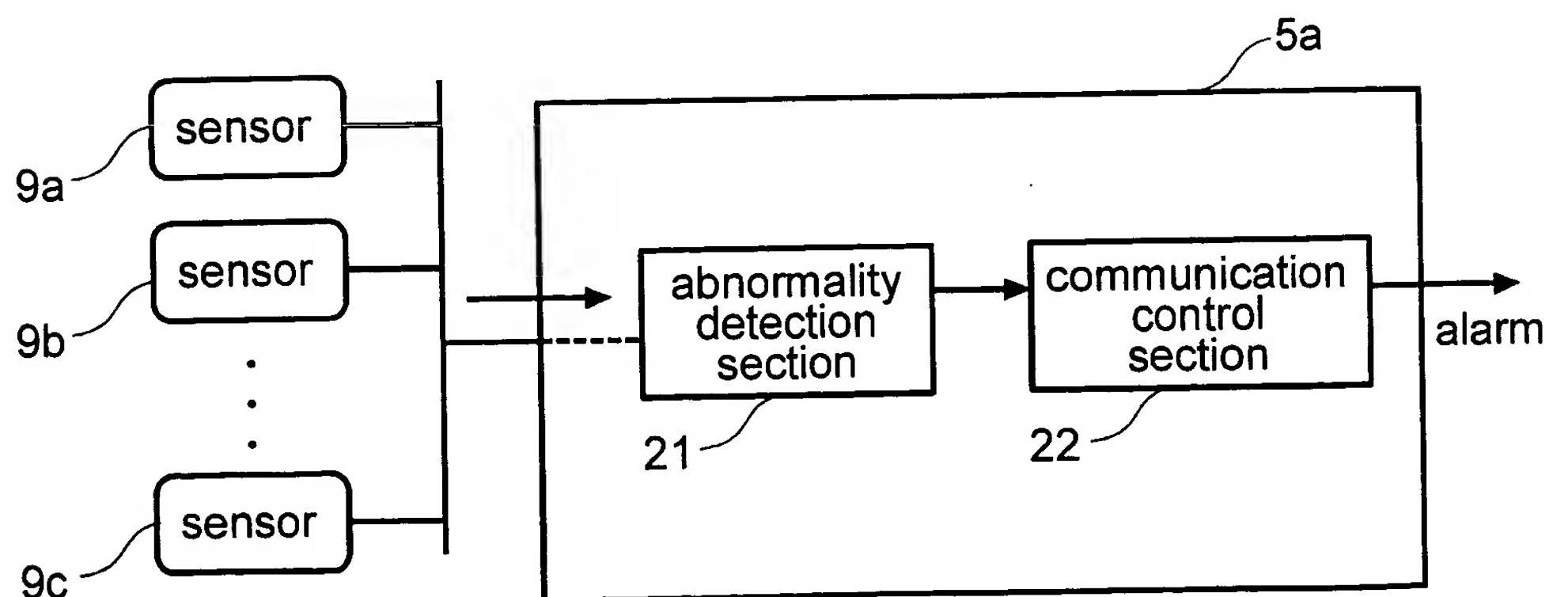
# FIG.1

system configuration



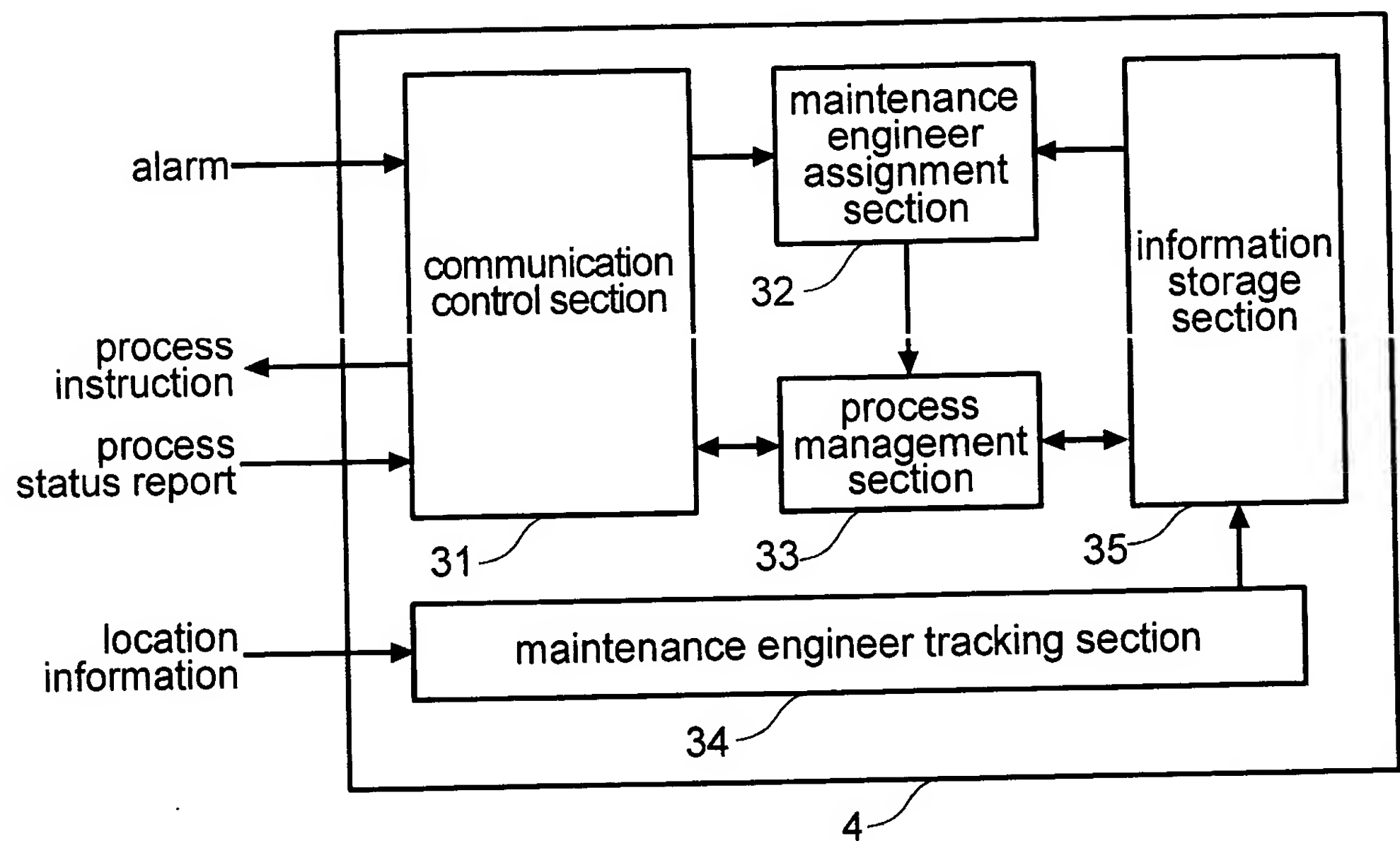
# FIG.2

terminal configuration

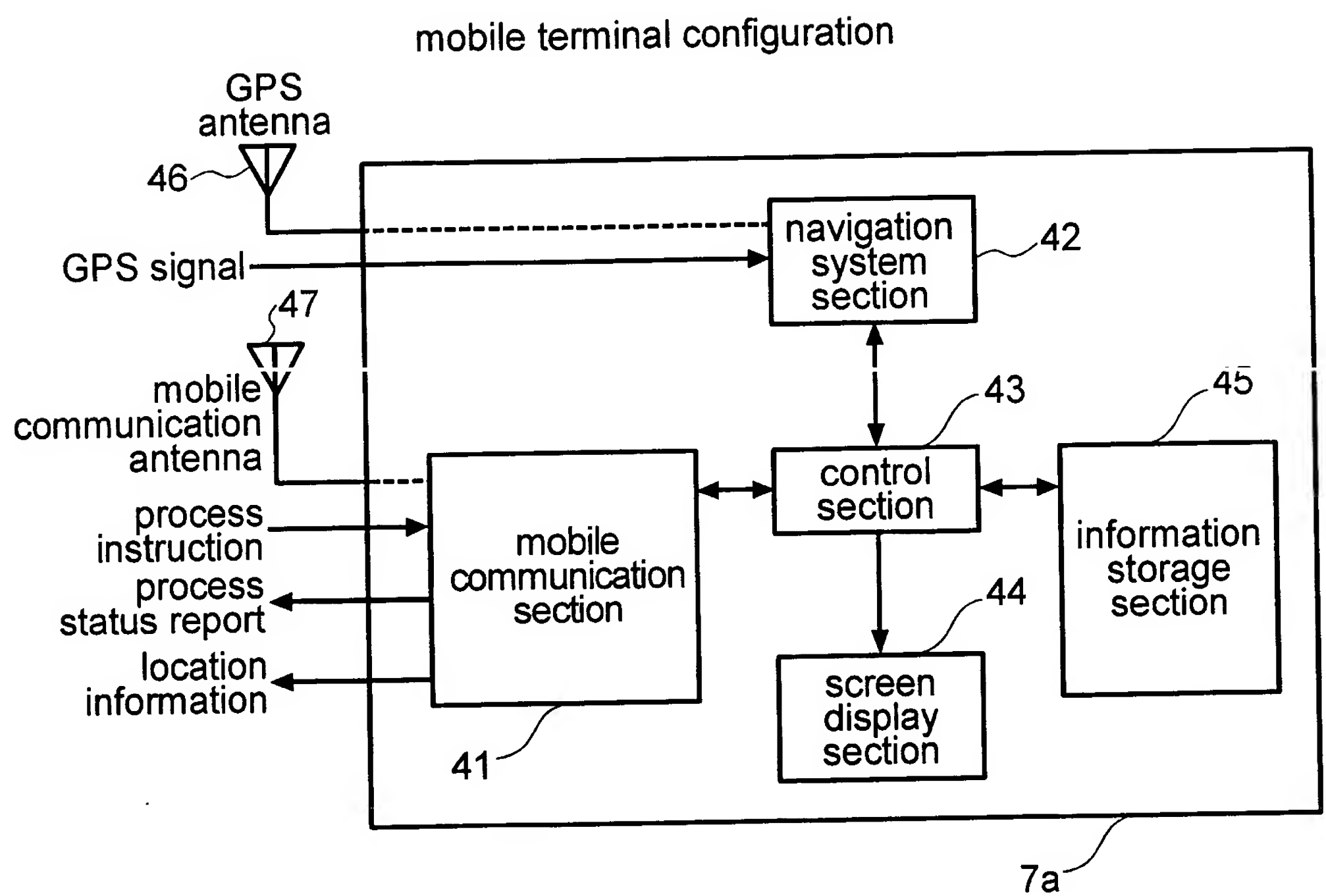


# FIG.3

center device configuration

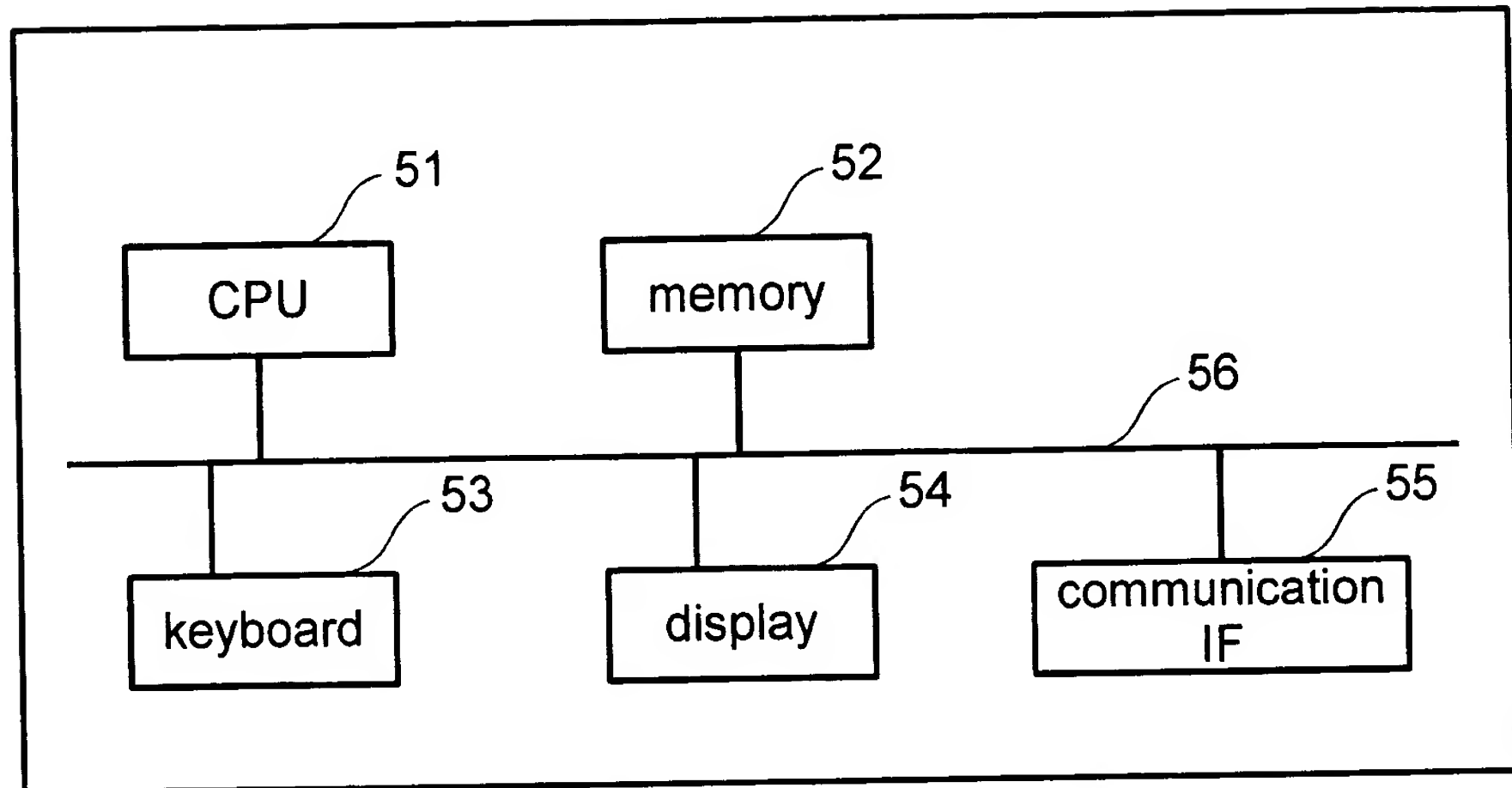


**FIG.4**



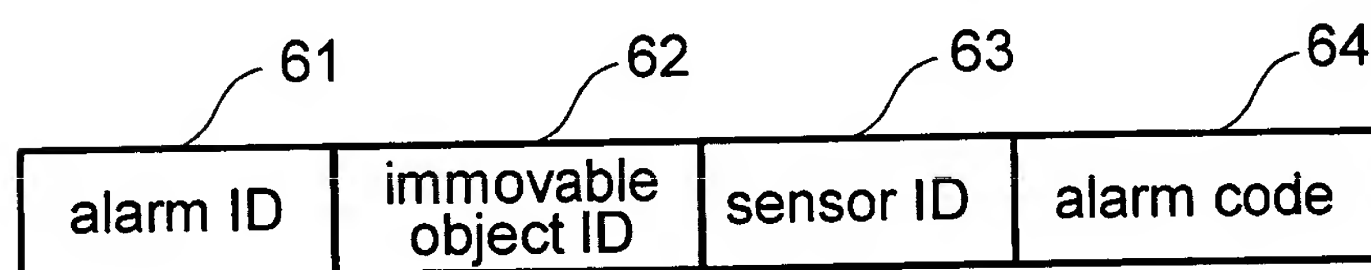
**FIG.5**

hardware configuration of device



**FIG.6**

alarm information 60



# FIG.7

immovable object management information 70

| immovable<br>object ID | immovable<br>object location<br>information | key storage<br>information |
|------------------------|---|----------------------------|
| 1                      | xxx   | standby station A          |
| 2                      | yyy   | standby station B          |
| 3                      | zzz   | maintenance<br>engineer 1  |

# FIG.8

alarm management information 80

| alarm<br>code | key usage<br>information | necessary<br>tool<br>information | manual, know-how<br>information  |
|---------------|--------------------------|----------------------------------|----------------------------------|
| 1             | key is<br>unnecessary    | none                             | operation method<br>for sensor A |
| 2             | key is<br>unnecessary    | tool A                           | operation method<br>for sensor B |
| 3             | key is<br>necessary      | none                             | operation method<br>for sensor C |
| 4             | key is<br>necessary      | tools A, B                       | operation method<br>for sensor D |

FIG.9

standby station management information 90

|                            |  |  |
|----------------------------|--|--|
| name of<br>standby station | standby station<br>location<br>information | stored tool  |
| standby station A          | xxx  | the number of<br>tools A: 3                                |
| standby station B          | yyy  | the number of<br>tools A: 5<br>the number of<br>tools B: 2 |
| standby station C          | zzz  | the number of<br>tools A: 2<br>the number of<br>tools C: 1 |

FIG.10

maintenance engineer management information 100

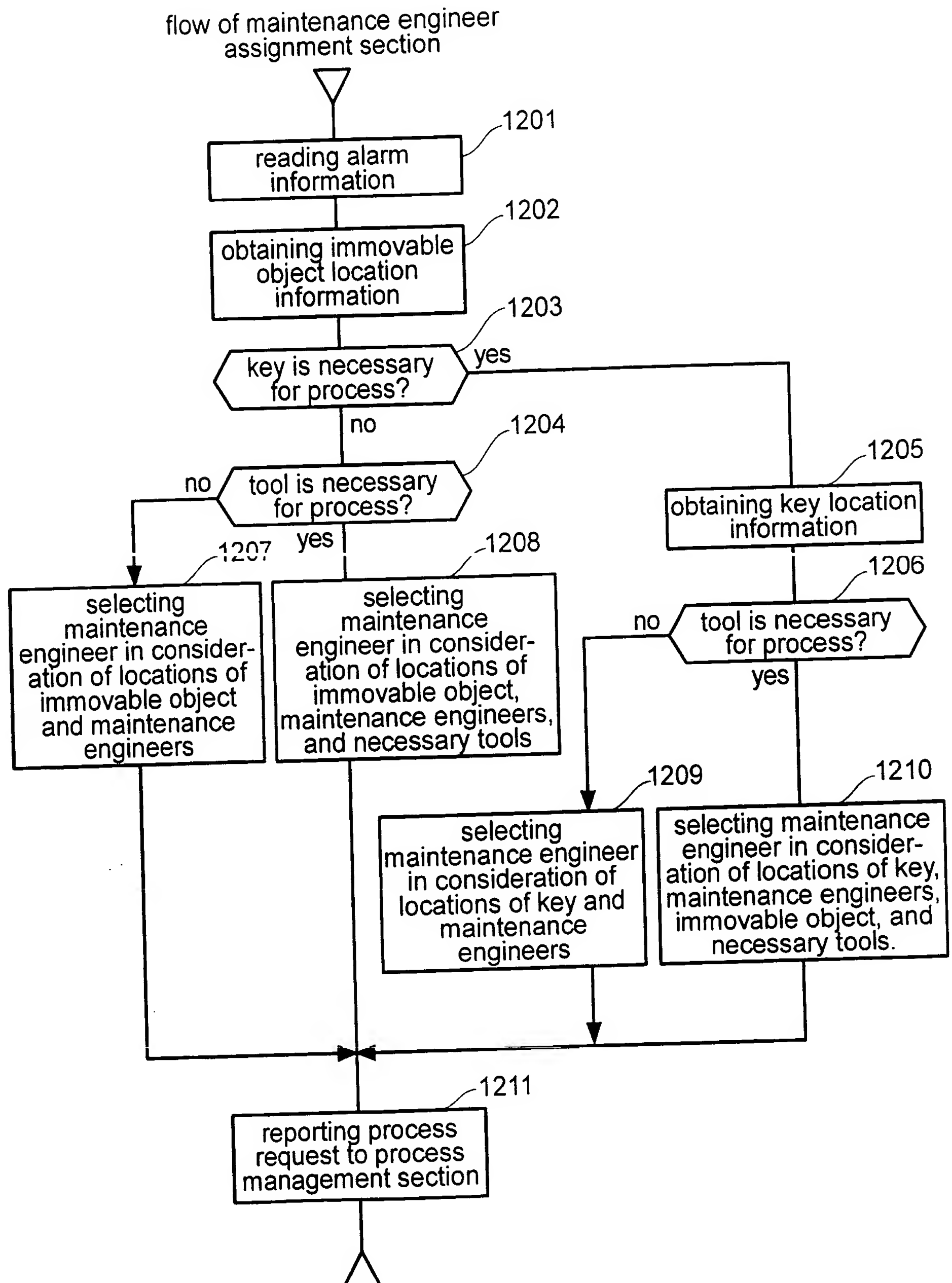
| 101                     |  | 102                                      |  | 103            |  | 104              |  |
|-------------------------|--|--|--|----------------|--|------------------|--|
| maintenance engineer ID |  | current location of maintenance engineer |  | process status |  | tool information |  |
| 1                       |  | aaa                                      |  | standby        |  | tool A           |  |
| 2                       |  | bbb                                      |  | processing     |  | tools A, B       |  |
| 3                       |  | ccc                                      |  | moving         |  | none             |  |
| 4                       |  | ddd                                      |  | standby        |  | tools A, C       |  |

FIG.11

process management information 110

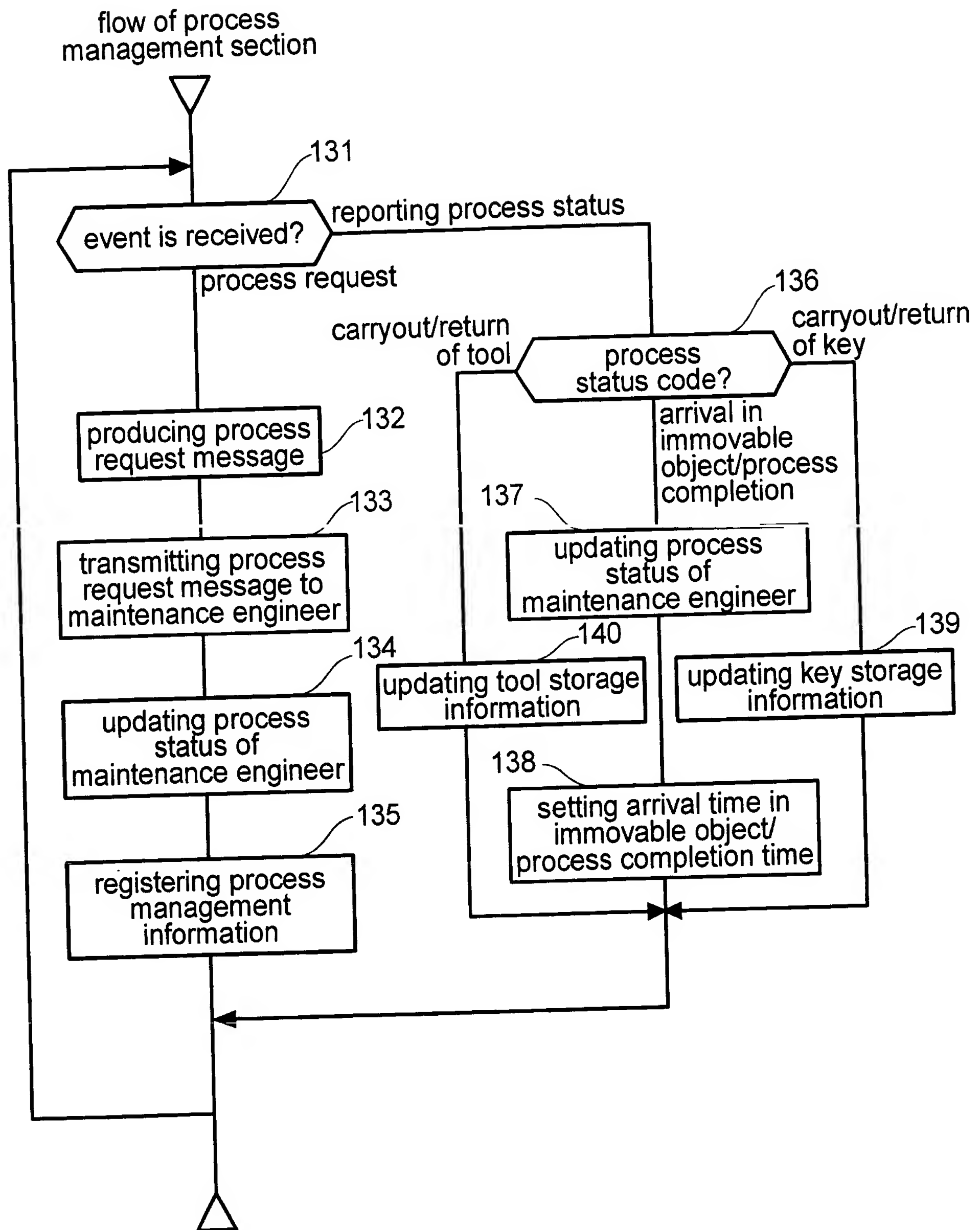
| 111                   |  | 112      |  | 113                 |  | 114       |  | 115        |  | 116                      |  | 117                       |  | 118                     |  | 119                              |  | 120                     |  |
|-----------------------|--|----------|--|---------------------|--|-----------|--|------------|--|--------------------------|--|---------------------------|--|-------------------------|--|----------------------------------|--|-------------------------|--|
| alarm occurrence time |  | alarm ID |  | immovable object ID |  | sensor ID |  | alarm code |  | key location information |  | tool location information |  | maintenance engineer ID |  | arrival time in immovable object |  | process completion time |  |
| 9:25                  |  | 1        |  | 1                   |  | 6         |  | 4          |  | aaa                      |  | —                         |  | maintenance engineer A  |  | 9:40                             |  | 9:50                    |  |
| 9:40                  |  | 2        |  | 3                   |  | 2         |  | 3          |  | —                        |  | —                         |  | maintenance engineer B  |  | 9:52                             |  | —                       |  |
| 9:45                  |  | 3        |  | 5                   |  | 2         |  | 2          |  | ccc                      |  | ccc                       |  | maintenance engineer C  |  | —                                |  | —                       |  |

FIG.12



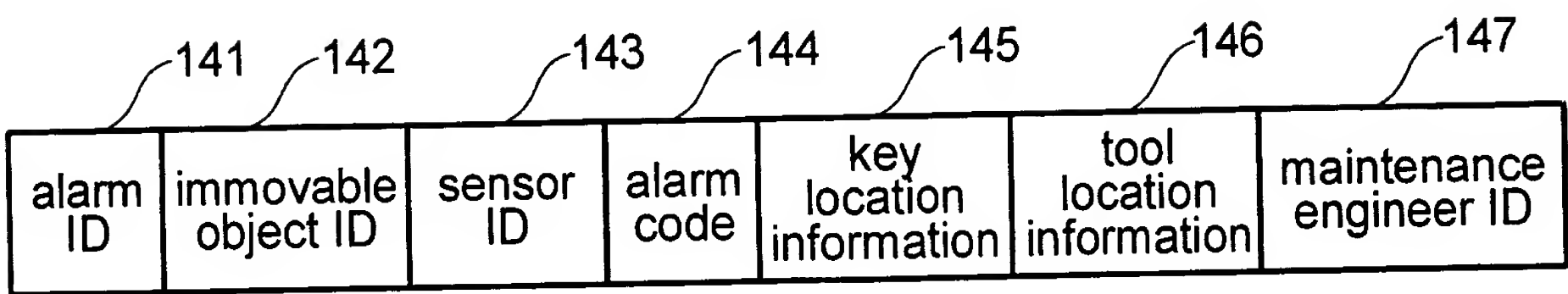


# FIG.13



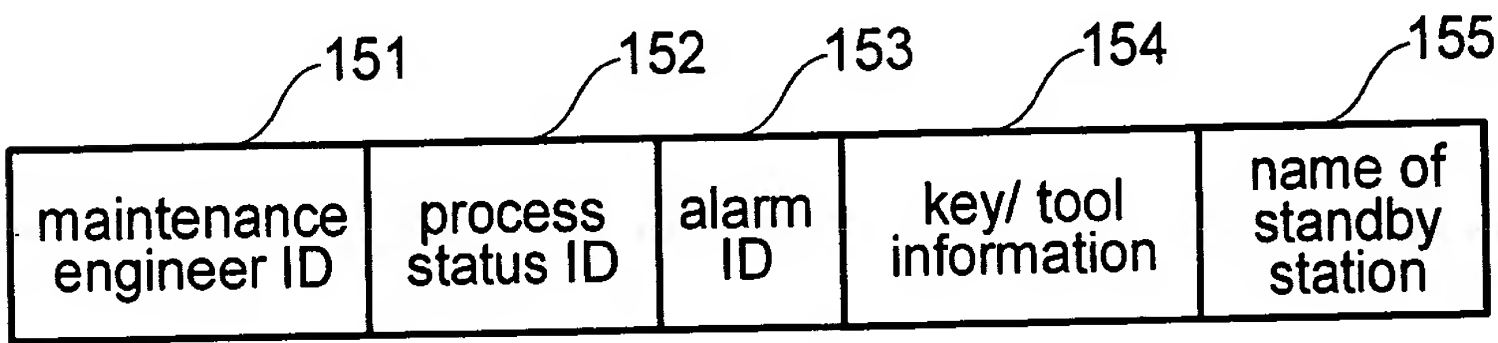
**FIG.14**

process request message 1400



**FIG.15**

process status report message 150



**FIG.16**

screen of mobile terminal

